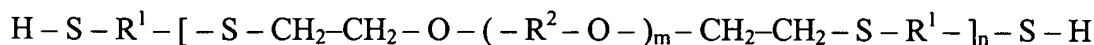


APPENDIX A

PROPOSED COUNTS

1. A polythioether comprising:



wherein

R^1 is selected from the group consisting of C_{2-6} n-alkylene, and a $-[(- \text{CH}_2)_p - \text{X}]_q - (- \text{CH}_2)_r -$ group;

R^2 is selected from the group consisting of C_{2-6} n-alkylene, and C_{6-8} cycloalkylene;

X is selected from the group consisting of O and S;

m is an integer between 1 and 10;

p is an integer between 2 and 6;

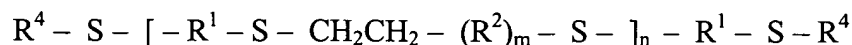
q is an integer between 1 and 5;

r is an integer between 2 and 10; and

n is an integer between 1 and 60 selected so that the molecular weight of the polythioether is between 1,000 and 10,000 Daltons.

– OR –

A polythioether comprising:



wherein

R^1 is a C_{1-10} alkyl, $-(\text{R}^3\text{Q})_p\text{R}^3-$ or $\text{C}_6\text{-C}_{20}$ aryl where Q is O or S,

each R^3 is independently C_{1-6} alkyl, and

p is an integer between 0 and 6;

R^2 is C_{1-6} alkyloxy or C_{5-12} cycloalkyloxy,

R^4 is H, C_{1-6} alkyl, C_{1-6} alkyl alcohol and C_{0-6} alkyl substituted with $-[- \text{CH}_2\text{CH}_2(\text{R}^2)_m -] - \text{X}$, where X is a halogen,

m is an integer between 1 and 4, and

n is an integer selected to yield a molecular weight for said polythioether of between 1000 and 10,000 Daltons.

2. A curable composition comprising:
40 to 80 weight percent of a polythioether polymer according to count 1,
5 to 60 weight percent of a filler and 10 weight percent of a curing agent,

- OR -

A curable composition comprising

42 to 80 weight percent of a polythioether polymer according to count 1,
and 0.3 to 15 weight percent of a light weight filler
and 0.1 to 20 weight percent of a curing agent.